

# BAY AREA TOLL AUTHORITY

Regional Measure 1  
Toll Bridge Projects

## Project Monitoring Program

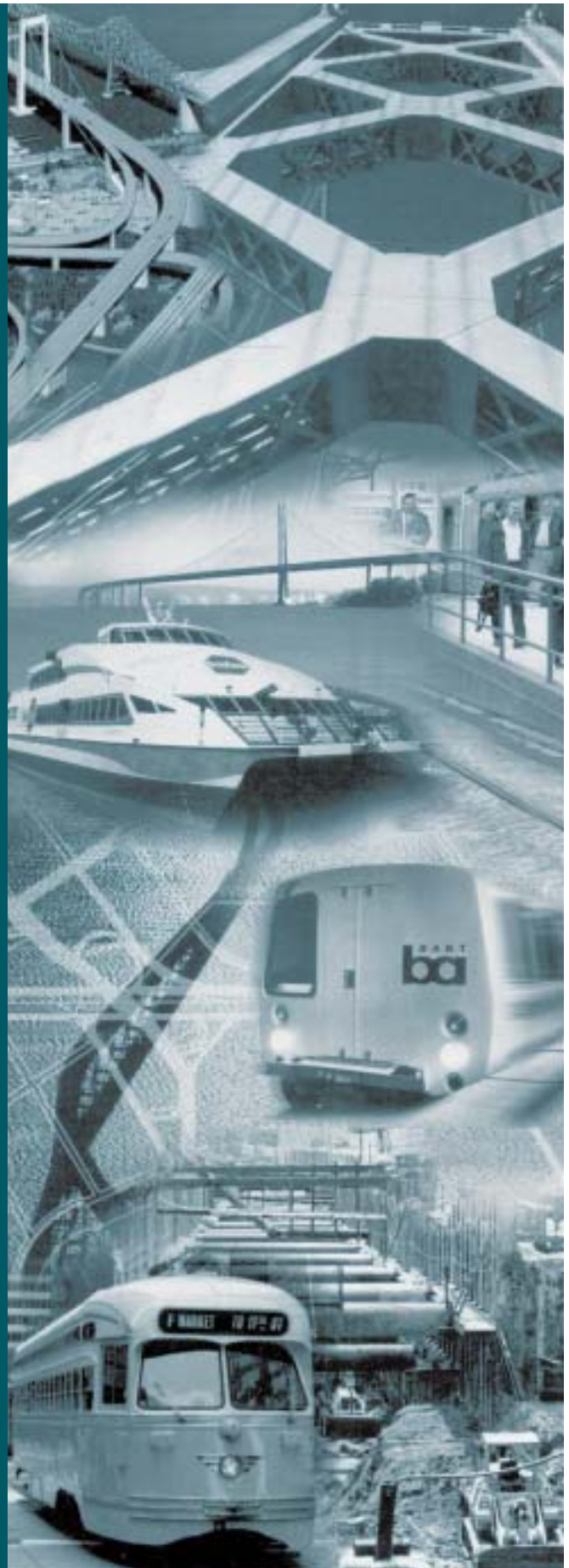
FEBRUARY 2003 PROGRESS REPORT



Metropolitan Transportation  
Commission

Bay Area Toll Authority

Released March 2003



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# BAY AREA TOLL AUTHORITY

Regional Measure 1  
Toll Bridge Projects

## Project Monitoring Program

FEBRUARY 2003 PROGRESS REPORT



*Prepared for*  
Metropolitan Transportation  
Commission

Bay Area Toll Authority

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Bechtel Infrastructure Corporation



*The following information is provided in accordance with California Government code Section 7550:*

*This document is one of a series of reports prepared for the Bay Area Toll Authority (BATA)/Metropolitan Transportation Commission (MTC) for the Regional Measure 1 Toll Bridge Program. The contract value for the monitoring efforts, technical analysis, and field site work which contribute to these reports, as well as the report preparation and production, is \$3,068,993.00.*

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REGIONAL MEASURE 1 TOLL BRIDGE PROJECTS





## BAY AREA TOLL AUTHORITY

### REGIONAL MEASURE 1 TOLL BRIDGE PROGRAM

In November 1988, Bay Area voters approved Regional Measure 1 (RM 1) and authorized a standard auto toll of \$1 for all seven state-owned Bay Area toll bridges. The additional revenues generated by the toll increase were identified for use for certain highway and bridge improvements, public transit rail extensions, and other projects that reduce congestion on the bridges.

RM 1 identified nine specific bridge and highway improvement projects as eligible for funding from the toll increase. The projects identified by RM 1 and their status of development are depicted in the map on the facing page and can be itemized as follows:

#### *Northern Bridge Group Projects:*

1. Widening of the existing Benicia-Martinez Bridge (completed; not included in this report)
2. Construction of a new bridge parallel to the existing Benicia-Martinez Bridge
3. Replacement of the existing western span of the Carquinez Bridge
4. Major rehabilitation of the existing Richmond-San Rafael Bridge
  - Trestle and fender rehabilitation
  - Deck rehabilitation
5. Construction of an eastern approach (Richmond Parkway) between the Richmond-San Rafael Bridge and Interstate 80 near Pinole (non-Caltrans project; completed)

#### *Southern Bridge Group Projects:*

1. Construction of the West Grand Avenue connector to the San Francisco-Oakland Bay Bridge (completed; not included in this report)
2. Widening of the existing San Mateo-Hayward Bridge and eastern approach to six lanes (completed)
3. Improvement of the Interstate 880/State Route 92 interchange
4. Improvements to the western approaches to the Dumbarton Bridge
  - US 101/University Avenue interchange reconstruction (non-Caltrans project; completed)
  - State Route 84 (Bayfront Expressway) widening.

### MTC, BATA, AND THE CALIFORNIA STATE DEPARTMENT OF TRANSPORTATION (CALTRANS)

As the regional transportation planning agency for the San Francisco Bay Area, MTC is responsible for transportation planning, coordinating, and fund programming in the nine counties surrounding the Bay.

With SB 226, MTC, as the Bay Area Toll Authority (BATA), has also assumed certain duties previously held by the California Transportation Commission, including responsibilities for the programming, administration, and allocation of all toll revenues (excluding the seismic surcharge) from the state-owned toll bridges in the Bay Area.







Caltrans continues to be responsible for the ongoing operation of the state-owned bridges, including the collection of tolls, as well as the maintenance, rehabilitation, and capital improvement of the bridges.




### PROJECT MONITORING PROGRAM

This report focuses on monitoring project cost and schedule performance for the Regional Measure 1 Toll Bridge Improvement Projects, as measured against approved budget and schedule milestones. The report provides comprehensive project status information at three levels of detail:

- Color-coded executive summary of Regional Measure 1 projects status (program level)
- Detailed status of individual bridge projects (project level)
- Supplemental project and contract information, including budget adjustments, approved construction change orders, and project and contract level cost data, in the appendices.

**EXECUTIVE SUMMARY – STATUS OF REGIONAL MEASURE 1 PROJECTS**

<b>NORTHERN BRIDGE GROUP</b>	<b>COST</b>	<b>SCHEDULE</b>
New Benicia-Martinez Bridge		
Carquinez Bridge Replacement		
Richmond-San Rafael Bridge Rehabilitation		

- Legend:**
-  Green = no variance to current budget/schedule
  -  Yellow = variance to current budget/schedule (trend), defined as follows:  
For Cost: Project (BATA) contingency use may be required  
For Schedule: Construction contract completion dates delayed by greater than 3 months
  -  Red = variance to current budget/schedule, defined as follows:  
For Cost: Project budget change may be required  
For Schedule: “New facility open to traffic” date delayed by greater than 3 months by non-weather-related issues












## BAY AREA TOLL AUTHORITY

### EXECUTIVE SUMMARY – STATUS OF KEY ISSUES AND DEVELOPMENTS

- On the new bridge contract, deep water pile driving resumed on January 20, 2003 utilizing an air bubble curtain system to mitigate the fish take issue. The air bubble curtain system allowed for pile driving at Piers 10 and 13, without noticeable injury to any fish. Based on the success of the system, Caltrans received approval from the regulatory agencies to continue driving the remaining deep water piles at Piers 7, 11, 12, 14, and 15 with minimal additional tidal flow restrictions. Pile driving is currently in progress at Pier 7 and is expected to be completed by mid-March. Shallow water pile driving at Piers 6, 16, and 17 will follow. Also, wing walls on the south abutment are complete and erection of falsework for the superstructure continues from the south abutment to Pier 4.
  - While the success of the air bubble curtain system eliminates the impact on the fish and helps to keep the project moving forward, significant time and money has been lost due to the delay in pile installation. Additional cost and delay may still be incurred in regards to difficulties with hard driving of piles, installation of rock sockets below the piles, modifications to the superstructure design, and additional support costs. Caltrans, BATA, and Bechtel are evaluating cost and schedule impacts. A cost estimate based on a revised pile-driving schedule will be included in a future PMP report.
  - On the I-680/I-780 interchange contract, concrete operations continue on foundations and columns for the interchange structures. On I-780, the new interchange supports at Park Road are complete. On I-780 to I-680, superstructure falsework is erected westward from Abutment 15 to Bent 11. The first superstructure concrete was poured for Spans 13-14. Concrete operations are in progress on the columns eastward from Bent 2 through Bent 7. Wall panels are being erected at Retaining Wall 1 on I-680.
  - On the toll plaza contract, waterproofing, drainage installation and backfilling continue for the toll plaza access tunnel. Concrete operations continue at the stairwells. Field welding of structural steel on the Operations Building is nearing completion. Installation of metal decking is in progress.
  - On the I-680/Marina Vista interchange contract, roadwork construction continues on Waterfront Road with placement of cellular concrete and roadbed construction. Piles have been driven at Bents 7 and 8. Drilled piles are complete at Abutment 9.
- 
- On the new bridge contract, the second of three ships carrying the prefabricated steel deck sections arrived on February 17, 2003. The first 7 deck sections (from the first ship) have been lifted. A total of 24 deck sections will be lifted into position. The first lift occurred on February 2, 2003; the process will continue through March.
  - Caltrans continues to forecast that the new bridge will open to traffic in October 2003.
  - On the south approach and interchange contract, erection of superstructure falsework continues for Spans 4 – 6 of the Crockett Viaduct and for the on/off-ramps to westbound I-80. Concrete operations continue on columns for the interchange structures. Subgrade preparation, backfilling and paving continue on westbound I-80, weather permitting.
- 
- On the west trestle replacement, work continues on demolition along the interior of the existing eastbound and westbound trestles, installation of a temporary interior work trestle, installation of interior piles and demolition of the exterior rail. Working eastward, interior pile installation is at Bent 19 of 37 and pile cleanout and concrete placement is at Bents 10 and 11. Traffic is being re-routed on the upper (westbound) trestle during nighttime demolition of the exterior rail. Exterior work started at Pier 1 on the west end on February 18, 2003.
  - The schedule status code for the project is "yellow" while Caltrans reevaluates the scope and schedule of the deck rehabilitation project, which cannot begin until the seismic work or the bridge is complete.

**EXECUTIVE SUMMARY – STATUS OF REGIONAL MEASURE 1 PROJECTS**

SOUTHERN BRIDGE GROUP	COST	SCHEDULE
San Mateo-Hayward Bridge Widening		
I-880/SR-92 Interchange Improvement		
Dumbarton Bridge West Approach Projects (Bayfront Expressway)		

- Legend:**
-  Green = no variance to current budget/schedule
  -  Yellow = variance to current budget/schedule (trend), defined as follows:  
For Cost: Project (BATA) contingency use may be required  
For Schedule: Construction contract completion dates delayed by greater than 3 months
  -  Red = variance to current budget/schedule, defined as follows:  
For Cost: Project budget change may be required  
For Schedule: “New facility open to traffic” date delayed by greater than 3 months by non-weather-related issues

- On the bridge-widening contract, the eastbound 3 lanes were opened to traffic on Saturday January 18, 2003. The lane configuration of the modified eastbound trestle now matches the new westbound trestle that was opened on November 4, 2002 – each trestle carrying three vehicle lanes with shoulders on each side. Following completion of outstanding electrical and punchlist work, Caltrans accepted the contract in late February.
- Caltrans is in the process of closing the contract and settling potential claims on the project.

- Caltrans is currently preparing the Final Environmental Impact Statement Report (EIS/R) for the project. The report is scheduled for submittal to FHWA for approval in April 2003. A Record of Decision from FHWA is anticipated in the fall of 2003.

- On the Bayfront Expressway widening contract, construction continues on the north side of SR-84 between the Dumbarton Bridge and University Avenue with excavation, placement of lightweight fill and installation of drainage. Construction of the median barrier is in progress between Willow Road and University Avenue. Electrical installations continue for traffic lights at the intersections.

## COST STATUS SUMMARY (MILLION DOLLARS)

PROJECT	Baseline Budget (June 2000)	Current Budget (Oct 2002)	Current Forecast (Dec 2002)	Expended To Date (7/98 - 1/03)
<i>Northern Bridge Group</i>				
New Benicia-Martinez Bridge	586.0	652.8	652.8 <sup>2</sup>	212.0
Carquinez Bridge Replacement	433.2	479.8	479.8	327.7
Richmond-San Rafael Bridge Rehabilitation				
► West Trestle and Fender Rehabilitation	45.4	35.4	35.4	19.7
► Deck Rehabilitation	53.4	53.4	53.4	0.2
Richmond Parkway ( <i>Non-Caltrans</i> ) <sup>1</sup>	5.9	5.9	5.9	2.4
<b>SUBTOTAL – NBG</b>	<b>1,123.9</b>	<b>1,227.2</b>	<b>1,227.2</b>	<b>562.0</b>
<i>Southern Bridge Group</i>				
San Mateo-Hayward Bridge Widening				
► Widening	203.6	217.5	217.5	190.2
► West Approach Replacement Planting	0.3	0.3	0.3	0.0
I-880/SR-92 Interchange Improvement	124.2	134.2	134.2	12.0
Dumbarton Bridge West Approach Projects				
► US-101/University Avenue Interchange Reconstruction ( <i>Non-Caltrans</i> )	3.8	3.8	3.8	3.7
► Bayfront Expressway (SR-84) Widening	33.8	33.8	33.8	22.6
<b>SUBTOTAL – SBG</b>	<b>365.6</b>	<b>389.5</b>	<b>389.5</b>	<b>228.6</b>
<b>GRAND TOTAL</b>	<b>1,489.5</b>	<b>1,616.8</b>	<b>1,616.8</b>	<b>790.6</b>

<sup>1</sup> For the Richmond Parkway, values shown represent the portion funded by BATA.

<sup>2</sup> Due to project delays associated with the deep water pile driving operations, the project costs for the Benicia-Martinez Bridge project are expected to significantly increase. Bechtel's forecast of the cost increase will be included in a future PMP report.

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SCHEDULE STATUS SUMMARY

PROJECT	New Facility Open to Traffic Baseline (June 2000)	New Facility Open to Traffic Current (Jan 2003)	New Facility Open to Traffic Forecast (Jan 2003)
<i>Northern Bridge Group</i>			
New Benicia-Martinez Bridge	Jan 04	Dec 04	TBD <sup>2</sup>
Carquinez Bridge Replacement	Jan 03	Oct 03	Oct 03
Richmond-San Rafael Bridge Rehabilitation			
▶ West Trestle and Fender Rehabilitation <sup>1</sup>	Dec 04	Sep 04	Sep 04
▶ Deck Rehabilitation <sup>1</sup>	Sep 06	Jul 07	Jul 07
Richmond Parkway ( <i>Non-Caltrans</i> )	Feb 01	May 01	May 01
<i>Southern Bridge Group</i>			
San Mateo-Hayward Bridge Widening			
▶ Widening	Dec 02	Nov 02	Nov 02
▶ West Approach Replacement Planting <sup>1</sup>	May 08	May 08	May 08
I-880/SR-92 Interchange Improvement	Dec 06	Jun 09	Jun 09
Dumbarton Bridge West Approach Projects			
▶ US-101/University Avenue Interchange Reconstruction ( <i>Non-Caltrans</i> ) <sup>1</sup>	Apr 00	Apr 00	Apr 00
▶ Bayfront Expressway (SR-84) Widening <sup>1</sup>	Mar 03	Oct 03	Oct 03

<sup>1</sup> For the Richmond-San Rafael Bridge Rehab, San Mateo-Hayward Bridge West Approach Planting, and Dumbarton Bridge West Approach projects, the dates shown reflect construction completion; the existing facility remains open to traffic during all phases of construction.

<sup>2</sup> Construction completion of the Benicia-Martinez Bridge is expected to be delayed 12 to 18 months beyond the current schedule.

## NEW BENICIA-MARTINEZ BRIDGE

The existing Benicia-Martinez Bridge provides Interstate 680 access across the Carquinez Strait between Contra Costa and Solano counties. This project will construct a new parallel Benicia-Martinez Bridge east of the existing span that will include the following features:

- Five northbound lanes on the new bridge (four mixed-flow lanes and one slow-vehicle lane) that will allow conversion of the existing bridge to southbound traffic only
- A new bicycle/pedestrian lane on the existing bridge
- A new toll plaza south of the new bridge in Contra Costa County with 17 toll booths, including two high-occupancy-vehicle (HOV) bypass lanes
- Reconstruction of the Interstate 680/Marina Vista Road and Interstate 680/Interstate 780 interchanges

### Project Photos



Pier 7 Pile Driving



I-780 to I-680 Eastward



Toll Plaza Tunnel

### Current Activities:

- On the new bridge contract, the south abutment, including the wing walls, and pier columns 2 through 5 are complete. Erection of superstructure falsework continues from the south abutment to Pier 4. The first superstructure concrete pour is scheduled for Span 1 (south abutment to Pier 2) in early March 2003.
- With the success of the air bubble curtain system, regulatory agencies have given Caltrans approval to proceed with driving the remaining deep water piles with minimal additional tidal flow restrictions. Piles are driven to tip at Piers 10 and 13 and are being driven at Pier 7 with center core relief drilling. Shallow water pile driving will resume at Pier 6 in March. An additional crane is being mobilized on the north temporary trestle, in preparation for driving piles at Piers 16 and 17.
- On the I-680/I-780 interchange contract, concrete operations are complete for the new interchange supports at Park Road on I-780. On I-780 to I-680, superstructure falsework is erected westward from Abutment 15 to Bent 11. The first stem and soffit concrete was poured for Span 13-14 on February 19, 2003, followed by Span 12-13 on February 21, 2003. Drilled piles, pile caps and erection of rebar cages are complete eastward for Bents 2 through 7. Concrete operations continue with installation of forms on the columns. On I-680, erection of the MSE wall panels has commenced for Retaining Wall 1 at the slide area.
- On the toll plaza contract, waterproofing, drainage installation, and concrete operations continue for the employee's access tunnel. Concrete operations continue for the stairs to the tollbooths. Welding of structural steel framing on the Operations Building is nearing completion. Metal decking installation is complete on the main floor and continues on the roof.
- On the I-680/Marina Vista interchange contract, widening of southbound I-680 is complete and traffic has been shifted to the shoulder; median construction is in progress. Cellular concrete is being placed on Waterfront Road. Piles are driven at Bents 7 and 8; piles at Bent 8 are being excavated. The cast-in-drilled-hole piles have been installed at Abutment 9. Crossing the railroad spur line to access work areas at Bents 7 and 8 remains a safety concern.

## BAY AREA TOLL AUTHORITY

## NEW BENICIA-MARTINEZ BRIDGE

COST STATUS (\$ Million)	Baseline Budget (June 2000)	Current Budget (Oct 2002)	Current Forecast (Dec 2002)	Variance	Expended to Date (7/98 - 1/03)	Notes
Capital Outlay Construction						
South Approach	6.0	7.0	7.0	0.0	6.5	
New Bridge	247.3	307.5	307.5	0.0	88.8	A
Toll Plaza and Administration Building	22.8	21.4	21.4	0.0	5.2	
I-680/Marina Vista Interchange	43.2	45.1	45.1	0.0	4.5	
I-680/I-780 Interchange	80.8	54.7	54.7	0.0	24.5	
Other Budgeted Capital	28.1	30.0	30.0	0.0	1.7	
Capital Outlay Support	78.2	99.1	99.1	0.0	65.1	A
Capital ROW	21.1	14.4	14.4	0.0	11.3	
Non-BATA Funding	0.0	31.0	31.0	0.0	4.3	
Project (BATA) Contingency	58.4	42.5	42.5			A
<b>Project Total (a)</b>	<b>586.0</b>	<b>652.8</b>	<b>652.8</b>	<b>0.0</b>	<b>212.0</b>	<b>A</b>
(a) Totals may be rounded						

SCHEDULE STATUS	Baseline (June 2000)	Current (Jan 2003)	Forecast (Jan 2003)	Variance	Notes
<b>Construction Contract Completion</b>					
New Bridge	Jan 04	Sep 04	TBD	n.a.	A
Toll Plaza and Administration Building	Feb 03	May 04	May 04	0	
I-680/Marina Vista Interchange	Dec 03	Dec 04	Dec 04	0	
I-680/I-780 Interchange	Dec 03	Jan 05	Jan 05	0	
South Approach	Mar 01	Oct 01	Oct 01	0	
Modify Existing Bridge	Jul 05	Dec 06	Dec 06	0	
<b>Project</b>					
<b>New Facility Open to Traffic</b>	<b>Jan 04</b>	<b>Dec 04</b>	<b>TBD</b>	<b>n.a.</b>	<b>A</b>

## NOTES

A. In addition to the significant cost and schedule impacts associated with the current proposed strategies to mitigate the inadvertent fish takes during pile driving operations, other significant cost increases have been identified. These cost increases are associated with difficulty in driving the foundation piles to required tip elevation, installation of the foundation rock sockets, corrections to the design of the superstructure, and additional support services. The total additional costs may exceed \$250 million, with a total project cost of \$903 million. Bechtel's estimate of the revised project cost will be included in a future PMP report. Construction completion is expected to be delayed 12 to 18 months beyond the current scheduled contract completion of September 2004.

## ACTION

Caltrans is evaluating the the costs and schedule impacts along with possible mitigating options. Bechtel will be evaluating these impacts as they are developed by Caltrans. BATA is evaluating strategies to fund the cost overrun.



## CARQUINEZ BRIDGE REPLACEMENT

The existing Carquinez Bridge carries Interstate 80 traffic between the cities of Vallejo and Crockett on two separate bridges: the 1927 bridge for westbound traffic and the 1958 bridge for eastbound traffic. While the 1958 bridge is being strengthened under Caltrans' seismic retrofit program, the 1927 bridge has been identified as being seismically deficient and will be replaced under the RM 1 program. The Carquinez Bridge replacement project will construct a new suspension bridge west of the existing bridges. The existing 1927 bridge will be demolished after the completion of this project. The project will incorporate the following features:

- Four westbound lanes on the new bridge (three mixed-flow lanes and one HOV lane)
- A new bicycle/pedestrian lane on the new bridge



*Replacement Support for Westbound I-80*

### Project Photos



*Lifting the First 7 Sections of the New Bridge*



*Lifting the First 2 Sections of the New Bridge*

### Current Activities:

- On the replacement bridge and north approach contract, installation of the deck sections is underway. The second of three ships carrying eight of the prefabricated steel deck sections of the new bridge arrived from Japan on February 17, 2003. The contractor began lifting the deck sections into place on February 2, 2003 and will continue this operation through March. Seven sections have been lifted to-date. A total of 24 deck sections will be lifted into position. Concrete operations continue on the back wall of Pier 1, on the south side of bridge, which will support the tub girders that span the railroad tracks from Pier 1 to Bent 7.
- Caltrans is forecasting that the new bridge will open to traffic in October 2003.
- On the south approach and interchange contract, erection of superstructure falsework continues for Spans 4-6 on the Crockett Viaduct and for the on/off-ramp to westbound I-80. The support for westbound I-80 that interfered with construction of the eastbound off-ramp to Crockett has been removed and replaced. Concrete operations continue on the columns for the westbound and eastbound on/off ramps. Subgrade preparation, underdrain installation, base course and concrete work continue for westbound I-80.

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CARQUINEZ BRIDGE REPLACEMENT

COST STATUS (\$ Million)	Baseline Budget (June 2000)	Current Budget (Oct 2002)	Current Forecast (Dec 2002)	Variance	Expended to Date (7/98 - 1/03)	Notes
Capital Outlay Construction						
Replacement Bridge and North Approach	213.7	239.2	239.2	0.0	180.2	A
South Approach and Interchange	116.0	73.9	73.9	0.0	43.3	
Maintenance Facility (Phases I & II)	7.0	8.1	8.1	0.0	7.8	
1927 Bridge Demolition	16.0	16.0	16.0	0.0	0.0	
Other Budgeted Capital	10.6	11.5	11.5	0.0	6.3	
Capital Outlay Support	43.7	102.9	102.9	0.0	80.6	A
Capital ROW	9.6	11.1	11.1	0.0	9.3	
Project (BATA) Contingency	16.5	17.1	17.1	0.0		A
<b>Project Total (a)</b>	<b>433.2</b>	<b>479.8</b>	<b>479.8</b>	<b>0.0</b>	<b>327.7</b>	<b>A</b>

(a) Totals may be rounded

SCHEDULE STATUS	Baseline (June 2000)	Current (Jan 2003)	Forecast (Jan 2003)	Variance	Notes
<b>Construction Contract Completion</b>					
Replacement Bridge & North Approach	Dec 03	May 04	May 04	0	
South Approach and Interchange (Phase 1)	Feb 03	Aug 03	Aug 03	0	
Maintenance Facility	Mar 02	Sep 02	Sep 02	0	
1927 Bridge Demolition	Mar 06	Mar 06	Mar 06	0	
<b>Project</b>					
<b>New Facility Open to Traffic</b>	<b>Jan 03</b>	<b>Oct 03</b>	<b>Oct 03</b>	<b>0</b>	

NOTES	ACTION
<p><b>A.</b> Potential claims have been identified that may require additional funds. Based on current information, Bechtel estimates that these costs and additional support services costs may increase the total project cost by an additional \$20 million for a total project cost of \$500 million. Bechtel will be assisting in the review of potential claims on the project. The results of this review will be included in a future PMP report.</p>	<p>Caltrans is seeking additional information in order to properly evaluate these potential cost increases.</p>

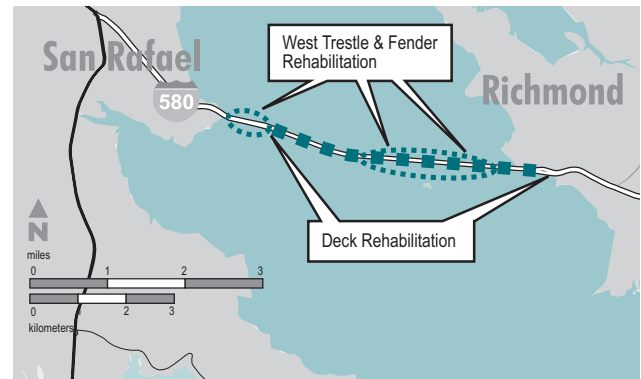
## RICHMOND-SAN RAFAEL BRIDGE REHABILITATION

Completed in 1956, the Richmond-San Rafael Bridge provides access - via Interstate 580 - across San Francisco Bay between Marin and Contra Costa counties. Major rehabilitation of the bridge was specified in RM 1 to be eligible for toll funding.

Currently, there are two major rehabilitation projects planned for the bridge:

- The first project is to replace the western trestle (low-rise) section of the bridge near San Rafael and rehabilitate the ship collision protection fender system at various bridge piers. This rehabilitation work is being combined with a seismic retrofit project.
- The second project is to rehabilitate the existing concrete deck on the bridge. The cast-in-place concrete riding surface (deck) has been worn over

time due to traffic and exposure to the marine environment. This project will follow the completion of the trestle and fender rehabilitation project to avoid possible construction conflicts.



### Project Photos



*Trestle work on west end of bridge*



*Trestle work on west end of bridge*

### Current Activities:

- The west trestle replacement consists of rebuilding the eastbound and westbound trestles near San Quentin. The trestles are parallel for most of their length and diverge to carry traffic onto the upper and lower decks of the main bridge. The westbound trestle, serving the upper deck, is 2,844 feet (867 meters), between Bents 1 and 29; the eastbound trestle, serving the lower deck, is 3,635 feet (1,108 meters), between Bents 1 and 37. The trestle replacement procedure consists of reducing lane width, demolishing an 8 feet (2 meters) linear section of interior bridge deck, installing a temporary interior work trestle, and installing interior sixty-six inch (1,680 mm) cast-in-drilled-hole (CIDH) piles at the mid-span of every other existing 50-foot (15 meter) deck section. Pile installation includes driving and drilling-out the casing, reinforcing steel installation, concrete infill and casing removal. When installation of the interior piles is complete, the operation is repeated on the exterior, where 8 feet (2 meters) of exterior bridge deck is removed and exterior piles are installed. After installation of the piles, pile/bent caps will be cast in place below the existing superstructure, atop the opposing interior and exterior piles. Following pile-bent construction, one trestle at a time will be closed at night for superstructure replacement. Each night, two of the existing 50-foot (15 meter) sections will be removed and replaced with one 100-foot (30 meter) precast section.
- Construction continues from west to east on the interior sections of the existing eastbound and westbound trestles. Interior pile installation is currently at Bent 19 of 37 with drill-out and concrete placing in the pile casings at Bents 10 and 11 of 37.
- Interior trestlework is not on the critical path and progress is less than forecasted previously. The schedule for the trestlework is currently under revision.
- Nighttime traffic is being rerouted at times to the upper (westbound) trestle during demolition of the exterior rail. Demolition started on February 18, 2003.

BAY AREA TOLL AUTHORITY

RICHMOND-SAN RAFAEL BRIDGE REHABILITATION

COST STATUS (\$ Million)	Baseline Budget (June 2000)	Current Budget (Oct 2002)	Current Forecast (Dec 2002)	Variance	Expended to Date (7/98 - 1/03)	Notes
<b>West Trestle and Fender Rehabilitation</b>						
Capital Outlay Construction	33.9	0.0	0.0	0.0	0.0	
Capital Outlay Support	5.4	0.7	0.7	0.0	0.7	
Capital ROW	0.0	0.0	0.0	0.0	0.0	
Non-BATA Funding	0.0	34.6	34.6	0.0	19.0	
Project (BATA) Contingency	6.1	0.0	0.0	0.0		
<b>Subtotal</b>	<b>45.4</b>	<b>35.4</b>	<b>35.4</b>	<b>0.0</b>	<b>19.7</b>	
<b>Deck Rehabilitation</b>						
Capital Outlay Construction	33.0	33.0	33.0	0.0	0.0	
Capital Outlay Support	9.0	5.0	5.0	0.0	0.2	
Capital ROW	0.0	0.0	0.0	0.0	0.0	
Non-BATA Funding	0.0	4.0	4.0	0.0	0.0	
Project (BATA) Contingency	11.4	11.4	11.4	0.0		
<b>Subtotal</b>	<b>53.4</b>	<b>53.4</b>	<b>53.4</b>	<b>0.0</b>	<b>0.2</b>	
<b>Project Total (a)</b>	<b>98.9</b>	<b>88.8</b>	<b>88.8</b>	<b>0.0</b>	<b>20.0</b>	

(a) Totals may be rounded

SCHEDULE STATUS	Baseline (June 2000)	Current (Jan 2003)	Forecast (Jan 2003)	Variance	Notes
<b>Construction Contract Completion</b>					
West Trestle and Fender Rehabilitation	Dec 04	Sep 04	Sep 04	0	
Deck Rehabilitation	Sep 06	Jul 07	Jul 07	0	A
<b>Project</b>					
<b>New Facility Open to Traffic</b>					B

NOTES	ACTION
A. Caltrans is reporting a forecast completion in mid-2005 for the retrofit project with the deck rehabilitation to follow.	Caltrans is reviewing the forecast completion date of the deck rehabilitation contract.
B. The existing facility remains open to traffic during all phases of construction.	None.

### SAN MATEO-HAYWARD BRIDGE WIDENING

In 1996, the western approach to the San Mateo-Hayward Bridge from U.S. Route 101 was widened from four to six lanes to match the configuration of the high-rise section of the bridge. The current project will complete the widening work in this corridor along the low-trestle section of the bridge and its eastern approach to Interstate 880. The project includes the following features:

- Widening of the low-rise trestle and eastern approach from I-880 from four to six lanes with shoulders
- Extension of the existing west-bound HOV lane one mile west along the eastern approach from Interstate 880
- Construction of a new pedestrian/bicycle overcrossing of State Route 92
- Expansion of the existing toll plaza
- Improvements to the Hayward Shoreline Interpretive Center



*Mini Toll Plaza*

### Project Construction Progress and Photos



*Eastbound trestle opened to traffic*



*Pedestrian Overcrossing*

### Current Activities:

- On the bridge-widening contract, the new westbound trestle opened to traffic on November 4, 2002, with three traffic lanes and shoulders. The eastbound trestle, with three traffic lanes and shoulders, opened to traffic on January 18, 2003. Completion of electrical and punchlist items and demobilization took place on February 21, 2003.
- Caltrans is in the process of closing the contract and settling potential claims on the project.



BAY AREA TOLL AUTHORITY

SAN MATEO-HAYWARD BRIDGE WIDENING

COST STATUS (\$ Million)	Baseline Budget (June 2000)	Current Budget (Oct 2002)	Current Forecast (Dec 2002)	Variance	Expended to Date (7/98 - 1/03)	Notes
<b>Widening</b>						
Capital Outlay Construction						
Widen Trestle	124.8	128.9	128.9	0.0	124.9	A
Widen Roadway	29.2	26.1	26.1	0.0	25.4	
Construct Mini Toll Plaza	4.4	6.3	6.3	0.0	5.9	
Other Budgeted Capital	8.9	8.6	8.6	0.0	2.9	
Capital Outlay Support	15.5	39.8	39.8	0.0	30.5	
Capital ROW	1.5	1.5	1.5	0.0	0.5	
Project (BATA) Contingency	19.3	6.3	6.3	0.0		A
<b>Subtotal</b>	<b>203.6</b>	<b>217.5</b>	<b>217.5</b>	<b>0.0</b>	<b>190.2</b>	
<b>West Approach Planting</b>						
Capital Outlay Construction	0.2	0.2	0.2	0.0	0.0	
Capital Outlay Support	0.1	0.1	0.1	0.0	0.0	
Capital ROW	0.0	0.0	0.0	0.0	0.0	
Project (BATA) Contingency	0.1	0.1	0.1	0.0		
<b>Subtotal</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.0</b>	<b>0.0</b>	
<b>Project Total (a)</b>	<b>203.9</b>	<b>217.8</b>	<b>217.8</b>	<b>0.0</b>	<b>190.2</b>	
(a) Totals may be rounded						

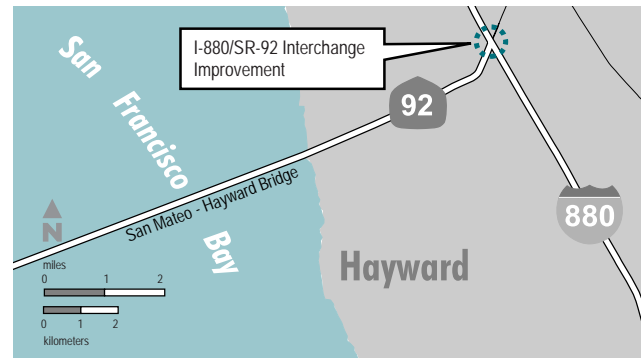
SCHEDULE STATUS	Baseline (June 2000)	Current (Jan 2003)	Forecast (Jan 2003)	Variance	Notes
<b><u>Construction Contract Completion</u></b>					
<b>Widening</b>					
Widen Trestle	Dec 02	Feb 03	Feb 03	0	
Construct Mini Toll Plaza	Nov 02	Nov 02	Nov 02	0	
Widen Eastern Approach	Nov 02	Sep 01	Sep 01	0	
Pedestrian Overcrossing	Sep 02	Sep 02	Sep 02	0	
<b>West Approach Planting</b>					
West Approach Replacement Planting	May 08	May 08	May 08	0	
<b><u>Project</u></b>					
New Facility Open to Traffic	Dec 02	Nov 02	Nov 02		
<b>NOTES</b>			<b>ACTION</b>		

A. Final settlement of outstanding claims may require utilization of the project contingency.

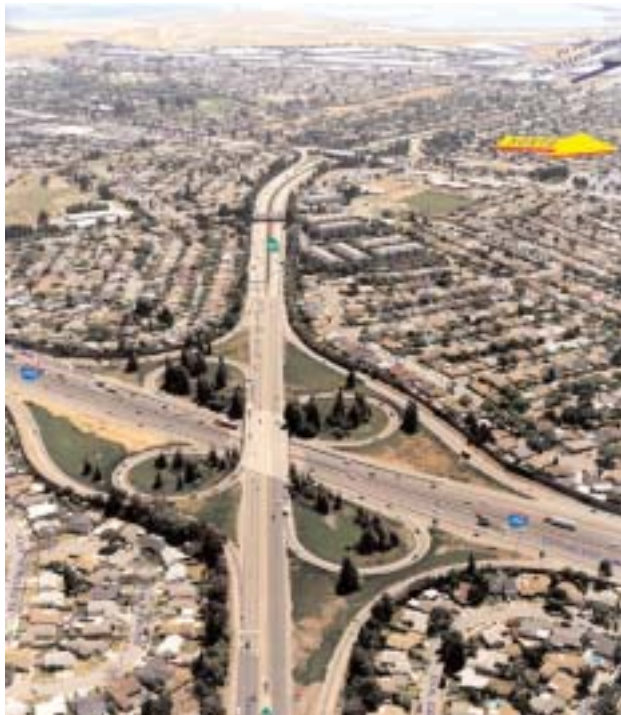
Caltrans is currently preparing for a final settlement of the contractor's claims

## I-880/SR-92 INTERCHANGE IMPROVEMENT

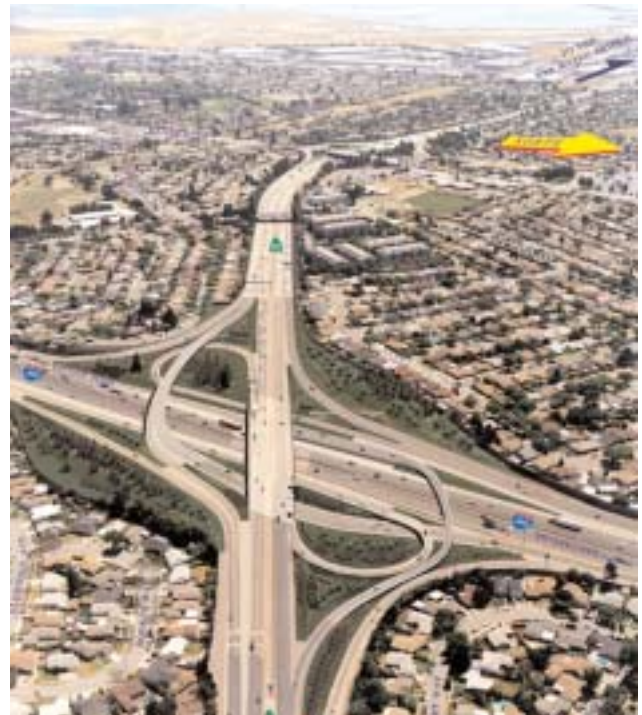
As part of an effort to improve traffic flow and to relieve congestion on the San Mateo-Hayward Bridge and its approaches, RM 1 identified the need to improve and reconstruct the Interstate 880/State Route 92 interchange. While still in the environmental clearance phase, the project proposes to modify the existing cloverleaf interchange to increase capacity and improve safety and traffic operations. Various alternatives are under consideration and are being assessed as part of the environmental process.



### Project Photos



*Existing Interchange; looking west*



*Alternative H Interchange; looking west*

### Current Activities:

- Caltrans is currently preparing the Final Environmental Impact Statement/Report (FEIS/R) for submittal to the Federal Highway Administration (FHWA) for its review.



BAY AREA TOLL AUTHORITY

I-880/SR 92 INTERCHANGE IMPROVEMENT

COST STATUS (\$ Million)	Baseline Budget (June 2000)	Current Budget (Oct 2002)	Current Forecast (Dec 2002)	Variance	Expended to Date (7/98 - 1/03)	Notes
<b>I-880/SR-92 Interchange Improvement</b>						
Capital Outlay Construction	70.3	94.6	94.6	0.0	0.0	A
Capital Outlay Support	20.8	24.1	24.1	0.0	12.0	
Capital ROW	8.0	0.1	0.1	0.0	0.0	
Non-BATA Funding	0.0	10.0	10.0	0.0		
Project (BATA) Contingency	25.1	5.5	5.5	0.0	0.0	A
<b>Project Total (a)</b>	<b>124.2</b>	<b>134.2</b>	<b>134.2</b>	<b>0.0</b>	<b>12.0</b>	<b>A</b>
(a) Totals may be rounded						

SCHEDULE STATUS	Baseline (June 2000)	Current (Jan 2003)	Forecast (Jan 2003)	Variance	Notes
<b>Construction Contract Completion</b>					
I-880/SR-92 Interchange Improvement	Dec 06	Jun 09	Jun 09	0	
<b>Project</b>					
New Facility Open to Traffic	Dec 06	Jun 09	Jun 09	0	

NOTES	ACTION
A. Due to the delayed delivery of the project, additional funds may be necessary for escalation. Bechtel has forecast a potential project increase of \$15 million, resulting in a total project cost of \$150 million.	BATA will prepare a check estimate when 60% engineering design is achieved.

## DUMBARTON BRIDGE WEST APPROACH PROJECTS

RM 1 identified the need for improvements to the western approaches to the Dumbarton Bridge. Through coordination with the City/County Association of Governments of San Mateo County, two projects were identified for toll bridge funding:

- The first project, sponsored by the City of East Palo Alto, modifies the U.S. Route 101/University Avenue interchange. This project is designed to help alleviate traffic congestion and improve overall traffic flow to University Avenue and the Dumbarton Bridge.
- The second project, sponsored by Caltrans, widens the Bayfront Expressway (State Route 84) from the Dumbarton Bridge to the U.S. 101/Marsh Road interchange. The existing six-lane expressway section from the bridge to University Avenue will be reconstructed with upgraded shoulders and lane widths. The existing expressway section from University Avenue to Marsh Road will be widened from four to six lanes.



### Project Photos



*Median Barrier*



*Willow Road Cutoff*

### Current Activities:

- On the Bayfront Expressway (SR-84) widening contract, traffic has been diverted to the newly paved section to allow excavation, placement of lightweight fill, installation of drainage and paving on the north side of SR-84. Curb and gutter are being installed at the Marsh Road intersection. The retaining wall near the TYCO entrance is being backfilled. The pedestrian tunnel near Willow Road is poured and a barrier is being formed and poured. Electrical installations for streetlights and utilities are in progress along the right-of-way. Construction of the median barrier between Willow Road and University Avenue is in progress.
- The Ravenswood Triangle between Willow Road and University Avenue has been completed and restored as a wetland with the creation of mounds and ponds.

BAY AREA TOLL AUTHORITY

DUMBARTON BRIDGE WEST APPROACH PROJECTS

COST STATUS (\$ Million)	Baseline Budget (June 2000)	Current Budget (Oct 2002)	Current Forecast (Dec 2002)	Variance	Expended to Date (7/98 - 1/03)	Notes
<b>US101/University Avenue Interchange Reconstruction (Non-Caltrans)</b>						
Capital Outlay Construction	3.8	3.8	3.8	0.0	3.7	
Capital Outlay Support	0.0	0.0	0.0	0.0	0.0	
Capital ROW	0.0	0.0	0.0	0.0	0.0	
Project (BATA) Contingency	0.0	0.0	0.0	0.0		
<b>Subtotal</b>	<b>3.8</b>	<b>3.8</b>	<b>3.8</b>	<b>0.0</b>	<b>3.7</b>	
<b>Bayfront Expressway (SR84) Widening</b>						
Capital Outlay Construction	24.8	26.6	26.6	0.0	16.4	A
Capital Outlay Support	4.4	6.5	6.5	0.0	6.0	B
Capital ROW	1.3	0.2	0.2	0.0	0.2	
Project (BATA) Contingency	3.3	0.5	0.5	0.0		
<b>Subtotal</b>	<b>33.8</b>	<b>33.8</b>	<b>33.8</b>	<b>0.0</b>	<b>22.6</b>	
<b>Project Total (a)</b>	<b>37.6</b>	<b>37.6</b>	<b>37.6</b>	<b>0.0</b>	<b>26.3</b>	
(a) Totals may be rounded						

SCHEDULE STATUS	Baseline (June 2000)	Current (Jan 2003)	Forecast (Jan 2003)	Variance	Notes
<b>Construction Contract Completion</b>					
US 101/University Avenue Interchange Reconstruction (Non-Caltrans)	Apr 00	Apr 00	Apr 00	0	
Bayfront Expressway (SR84) Widening	Mar 03	Oct 03	Oct 03	0	
<b>Project</b>					
New Facility Open to Traffic	Mar 03	Oct 03	Oct 03	0	

NOTES	ACTION
A. The quantity and cost of lightweight fill are exceeding the contract amounts and may require additional funds.	Caltrans is evaluating options to mitigate the cost increase.
B. Bechtel is forecasting the need for additional funds for capital outlay support.	The additional costs can be funded within the total project budget.



## APPENDICES

**Appendix A: Project Budget Adjustments**

**Appendix B: Current Approved Contract Change Orders**

**Appendix C: Project Cost Summary Details**



**BAY AREA TOLL AUTHORITY**

**APPENDIX A – LIST OF PROJECT BUDGET ADJUSTMENTS**

**DEFINITIONS:**

**Baseline Budget (June 2000):** Baseline budgets as established by BATA in June 2000 for each project within the overall program.

**Current Budget:** Budget currently serving as the baseline for monitoring purposes. The current budget is equal to the established June 2000 budget, plus or minus any adjustment as listed below.

**Project Baseline Adjustments**

Date	Description of Adjustment
10/2000	Current Budgets for allocated capital outlay adjusted by BATA to reflect current Caltrans construction contract allotments.
11/2000	Current Budgets for the Benicia-Martinez and Richmond-San Rafael Bridge projects revised to reflect new funding from Non-BATA sources per agreements with Caltrans and a Prop. 192 refund from Caltrans related to the Carquinez Bridge project.
01/2001	Current Budget for the Benicia-Martinez bridge revised to reflect allocations by BATA.
03/2001	Current Budget for the Carquinez Bridge revised by BATA.
10/2001	Current Budget for the Benicia-Martinez Bridge revised by BATA.
12/2001	Current Budgets for the Benicia-Martinez and San Mateo-Hayward Bridges revised by BATA.

**BAY AREA TOLL AUTHORITY**

**APPENDIX B – APPROVED CONTRACT CHANGE ORDERS (CCO)  
FOR FEBRUARY 2003  
BENICIA-MARTINEZ BRIDGE**

Bridge/ Contract	CCO Number <sup>1</sup>	CCO Description	Funding Source <sup>2</sup>	Impacts	
				Cost (\$1000's)	Schedule
<b>New Bridge 04-006034</b>	31.1	Pile Driving Noise Attenuation Delays through May 14, 2002	C	947.9	
	32.1	Additional Funds for Load Test at Pier 9	C	750.0	
	36	Embedded Conduit Sleeves at Pier Tables	C	19.7	
	38.1	Pier Mock-up Table – Additional Funds	C	150.0	
	41	Duplex Receptacles for AC Units at Pier 3 Substation	C	1.8	
	50	Delays at Load Test Piles A & B	C	747.1	
	58	Pier 8 Pile Geotech Investigation	C	2,400.0	
<b>Subtotal</b>				<b>5,016.5</b>	
<b>Toll Plaza 04-006044</b>		No Approved Change Orders for February 2003			
<b>Subtotal</b>					
<b>Marina Vista Interchange 04-006054</b>	3	Partnering	S	15.0	
	4	Dispute Resolution Board	S	22.5	
	14	Waterfront Road Flood Repairs	C	169.3	
<b>Subtotal</b>				<b>206.8</b>	
<b>I-680/I-780 Interchange 04-006064</b>	44	Cable Tray	C	38.5	
<b>Subtotal</b>				<b>38.5</b>	
<b>South Approach 04-006094</b>		Contract is complete.			
<b>Totals for February 2003<sup>3</sup></b>				<b>5,261.8</b>	

<sup>1</sup> Only approved CCOs for the month are listed in Appendix B.

<sup>2</sup> Funding Source(s)  
S = Supplemental work  
C = Construction contingency

<sup>3</sup> Approved CCO cost total is within the approved current contract budget.



**BAY AREA TOLL AUTHORITY**

**APPENDIX B – APPROVED CONTRACT CHANGE ORDERS (CCO)  
FOR FEBRUARY 2003  
CARQUINEZ BRIDGE**

Bridge/ Contract	CCO Number <sup>1</sup>	CCO Description	Funding Source <sup>2</sup>	Impacts	
				Cost (\$1000's)	Schedule
<b>Carquinez Bridge Replacement 04-013014</b>	34.1	Differing Site Conditions at South Anchorage	C	1,182.0	
	55	Revise T3 Pier Protection	C	8.2	
	56.1	Inefficiencies Due to Pile Redesign	C	107.7	
	63	NA Shoring, T3 Slurry, SEW2, Tower Stability	C	1,557.5	
<b>Subtotal</b>				<b>1,297.9</b>	
<b>South Approach and Crockett Interchange 04-013054</b>	117 S1	VDR Landscaping & Irrigation Change	C	(7.8)	
	122	Removal of Underdrains Along D3 Line	C	7.1	
	129	"G" Line Abutment 12 Pile Predrill	C	(7.5)	
<b>Subtotal</b>				<b>&lt;8.2&gt;</b>	
<b>Maintenance Facility 04-013084</b>		Contract is complete.			
<b>Subtotal</b>					
<b>Totals for February 2003<sup>3</sup></b>				<b>1,289.7</b>	

<sup>1</sup> Only approved CCOs for the month are listed in Appendix B.

<sup>2</sup> Funding Source(s)  
S = Supplemental work  
C = Construction contingency

<sup>3</sup> Approved CCO cost total is within the approved current contract budget.

**BAY AREA TOLL AUTHORITY**

**APPENDIX B – APPROVED CONTRACT CHANGE ORDERS (CCO)  
FOR FEBRUARY 2003  
SAN MATEO-HAYWARD BRIDGE**

Bridge/ Contract	CCO Number <sup>1</sup>	CCO Description	Funding Source <sup>2</sup>	Impacts	
				Cost (\$1000's)	Schedule
<b>Widen Trestle 04-045014</b>	66	Revise Pavement Delineation	C	1.8	
	69	Entitlement for NOPC No. 16 (Welded Wire Fabric)	C	62.0	
	73	Temporary Layover of Camera Pole	C	3.5	
<b>Subtotal</b>				<b>67.3</b>	
<b>Mini-Toll Plaza 04-045024</b>		Contract is complete.			
<b>Subtotal</b>					
<b>Pedestrian Overcrossing 04-045044</b>		Contract is complete.			
<b>Subtotal</b>					
<b>Widen Roadway 04-045034</b>		Contract is complete.			
<b>Totals for February 2003<sup>3</sup></b>				<b>67.3</b>	

<sup>1</sup> Only approved CCOs for the month are listed in Appendix B.

<sup>2</sup> Funding Source(s)  
S = Supplemental work  
C = Construction contingency

<sup>3</sup> Approved CCO cost total is within the approved current contract budget.

**BAY AREA TOLL AUTHORITY**

**APPENDIX B - APPROVED CONTRACT CHANGE ORDERS (CCO)  
FOR FEBRUARY 2003  
DUMBARTON BRIDGE**

Bridge/ Contract	CCO Number <sup>1</sup>	CCO Description	Funding Source <sup>2</sup>	Impacts	
				Cost (\$1000's)	Schedule
<b>Bayfront Widening 04-015114</b>	4	DRB	C	13.5	
	13	Excavate Subbase ME126+40-131	C	12.7	
	16	Asphalt Price Index	C	0.0	
	17	CEEP	C	250.0	
	19	Remove/Dispose Buried Man-made Object	C	11.1	
<b>Subtotal</b>				<b>287.3</b>	
<b>Totals for February 2003<sup>3</sup></b>				<b>287.3</b>	

<sup>1</sup> Only approved CCOs for the month are listed in Appendix B.

<sup>2</sup> Funding Source(s)  
S = Supplemental work  
C = Construction contingency

<sup>3</sup> Approved CCO cost total is within the approved current contract budget.

**BAY AREA TOLL AUTHORITY**

**APPENDIX C – PROJECT COST SUMMARY DETAILS**

The following sheets provide detailed cost information for each of the bridge projects. Capital Outlay Support (Engineering), Capital Right-of-Way and Capital Outlay are shown for each of the projects. The Project (BATA) Contingency, as well as the bridge projects totals, is shown at the end of each bridge summary.

**Definitions:**

1. Capital Outlay Support includes both Caltrans and Architectural/Engineering (A/E) consultant support.
2. Capital Right of Way includes acquisition, loss of goodwill, demolition, utilities relocations, relocation assistance, title costs, and sale of excess lands.
3. Capital Outlay includes construction bid terms, external third party agreements, state-furnished materials, supplemental construction work, and construction contingencies.

**Project Cost Summaries**  
(\$ Millions)

	EA Number	Baseline Budget Jun-00	Current Budget Oct-02	Current Forecast Dec-02	Net Change	Expended <sup>1</sup> to Date (7/98 – 1/03)	Note
<b>Northern Bridge Group</b>							
<i>Project 2003 – New Benicia-Martinez Bridge</i>							
<b>South Approach</b>							
Capital Outlay Support	00609x	3.5	4.0	4.0	0.0	3.6	
Capital Right of Way	006099	7.0	7.7	7.7	0.0	7.2	
Capital Outlay	006094	6.0	7.0	7.0	0.0	6.5	
<b>Total South Approach</b>		<b>16.5</b>	<b>18.8</b>	<b>18.8</b>	<b>0.0</b>	<b>17.4</b>	
<b>New Bridge</b>							
Capital Outlay Support	00603x	31.9	36.0	36.0	0.0	25.9	
Capital Right of Way	006039	4.1	2.5	2.5	0.0	0.8	
Capital Outlay	006034	247.3	307.5	307.5	0.0	88.8	
Non-BATA Funding		0.0	10.1	10.1	0.0	2.9	
<b>Total New Bridge</b>		<b>283.3</b>	<b>356.1</b>	<b>356.1</b>	<b>0.0</b>	<b>118.4</b>	
<b>Toll Plaza &amp; Administration Building</b>							
Capital Outlay Support	00604x	6.2	10.3	10.3	0.0	7.2	
Capital Right of Way	006049	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	006044	22.8	21.4	21.4	0.0	5.2	
<b>Total Toll Plaza &amp; Admin.</b>		<b>29.1</b>	<b>31.7</b>	<b>31.7</b>	<b>0.0</b>	<b>12.4</b>	
<b>I-680/Marina Vista Interchange</b>							
Capital Outlay Support	00605x	10.7	15.7	15.7	0.0	10.3	
Capital Right of Way	006059	7.4	2.0	2.0	0.0	1.9	
Capital Outlay	006054	43.2	45.1	45.1	0.0	4.5	
<b>Total I-680/MV I/C</b>		<b>61.4</b>	<b>62.8</b>	<b>62.8</b>	<b>0.0</b>	<b>16.7</b>	
<b>I-680/I-780 Interchange</b>							
Capital Outlay Support	00606x	18.7	25.7	25.7	0.0	15.6	
Capital Right of Way	006069	1.7	1.7	1.7	0.0	1.4	
Capital Outlay	006064	80.8	54.7	54.7	0.0	24.5	
Non-BATA Funding		0.0	20.9	20.9	0.0	1.5	
<b>Total I-680/I-780 I/C</b>		<b>101.2</b>	<b>103.0</b>	<b>103.0</b>	<b>0.0</b>	<b>43.0</b>	

<sup>1</sup> Unaudited

**BAY AREA TOLL AUTHORITY**

**Appendix C – Project Cost Summary Details (cont'd)**

	EA Number	Baseline Budget Jun-00	Current Budget Oct-02	Current Forecast Dec-02	Net Change	Expended to Date (7/98 – 1/03)	Note
<b>Project 2003 – New Benicia-Martinez Bridge (cont'd)</b>							
<b>Other Budgeted Capital</b>							(a)
Capital Outlay Support		7.1	7.4	7.4	0.0	2.5	
Capital Right of Way		0.9	0.5	0.5	0.0	0.0	
Capital Outlay		28.1	30.0	30.0	0.0	1.7	
<b>Total Other Budgeted Capital</b>		<b>36.1</b>	<b>37.9</b>	<b>37.9</b>	<b>0.0</b>	<b>4.2</b>	
Total Capital Outlay Support		78.2	99.1	99.1	0.0	65.1	
Total Capital Right of Way		21.1	14.4	14.4	0.0	11.3	
Total Capital Outlay		428.2	465.8	465.8	0.0	131.2	
Non-BATA Funding		0.0	31.0	31.0	0.0	4.3	
Project Contingency (BATA)		58.4	42.5	42.5	0.0		
<b>Total New Benicia-Martinez Bridge</b>		<b>586.0</b>	<b>652.8</b>	<b>652.8</b>	<b>0.0</b>	<b>212.0</b>	
<b>Project 3002 – Carquinez Bridge Replacement</b>							
<b>Replacement Bridge &amp; North Approach</b>							(b)
Capital Outlay Support	01301x	17.7	58.4	58.4	0.0	50.0	
Capital Right of Way	013019	3.0	3.0	3.0	0.0	3.3	
Capital Outlay	013014	213.7	239.2	239.2	0.0	180.2	
<b>Total Replacement Bridge &amp; N. Approach</b>		<b>234.4</b>	<b>300.6</b>	<b>300.6</b>	<b>0.0</b>	<b>233.5</b>	
<b>South Approach &amp; Interchange</b>							(c)
Capital Outlay Support	01305x	22.7	32.4	32.4	0.0	23.6	
Capital Right of Way	013059	5.0	5.0	5.0	0.0	4.6	
Capital Outlay	013054	116.0	73.9	73.9	0.0	43.3	
<b>Total South Approach &amp; I/C</b>		<b>143.7</b>	<b>111.3</b>	<b>111.3</b>	<b>0.0</b>	<b>71.5</b>	
<b>Maintenance Facility Phase I &amp; II</b>							(d)
Capital Outlay Support		0.7	4.8	4.8	0.0	4.3	
Capital Right of Way		1.6	1.6	1.6	0.0	1.4	
Capital Outlay		7.0	8.1	8.1	0.0	7.8	
<b>Total Maint. Facility Ph I &amp; II</b>		<b>9.3</b>	<b>14.6</b>	<b>14.6</b>	<b>0.0</b>	<b>13.6</b>	
<b>Demolition – 1927 Bridge</b>							
Capital Outlay Support	01309x	2.0	4.1	4.1	0.0	1.5	
Capital Right of Way	013099	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	013094	16.0	16.0	16.0	0.0	0.0	
<b>Total Demo – 1927 Bridge</b>		<b>18.0</b>	<b>20.1</b>	<b>20.1</b>	<b>0.0</b>	<b>1.5</b>	

**Notes**

- (a) Includes EA 00601\*, 00608\*, 0060A\*, 0060C\*, 0060F\*, 0060G\*, 0060H\*
- (b) Includes EA 00453\*, 01301\*, 01303\*, 01304\*
- (c) Includes EA 01302\*, 01305\*, 04700\*
- (d) Includes EA 00607\*, 01308\*

**BAY AREA TOLL AUTHORITY**

**Appendix C – Project Cost Summary Details (cont'd)**

	EA Number	Baseline Budget Jun-00	Current Budget Oct-02	Current Forecast Dec-02	Net Change	Expended to Date (7/98 – 1/03)	Note
<b>Project 3002 - Carquinez Bridge Replacement (cont'd)</b>							
<b>Other Budgeted Capital</b>							(e)
Capital Outlay Support		0.6	3.1	3.1	0.0	1.2	
Capital Right of Way		0.0	1.5	1.5	0.0	0.0	
Capital Outlay		10.6	11.5	11.5	0.0	6.3	
<b>Total Other Budgeted Capital</b>		<b>11.2</b>	<b>16.1</b>	<b>16.1</b>	<b>0.0</b>	<b>7.5</b>	
Total Capital Outlay Support		43.7	102.9	102.9	0.0	80.6	
Total Capital Right of Way		9.6	11.1	11.1	0.0	9.3	
Total Capital Outlay		363.3	348.7	348.7	0.0	237.7	
Project (BATA) Contingency		16.5	17.1	17.1	0.0		
<b>Total Carquinez Bridge</b>		<b>433.2</b>	<b>479.8</b>	<b>479.8</b>	<b>0.0</b>	<b>327.7</b>	
<b>Project 4003 – Richmond-San Rafael Bridge – West Trestle and Fender Rehabilitation</b>							
Capital Outlay Support	0438Ux	5.4	0.7	0.7	0.0	0.7	
Capital Right of Way	0438U9	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	0438U4	33.9	0.0	0.0	0.0	0.0	
Non-BATA Funding		0.0	34.6	34.6	0.0	19.0	
Project (BATA) Contingency		6.1	0.0	0.0	0.0		
<b>Total R-SR Bridge – W. Trestle &amp; Fender Rehabilitation</b>		<b>45.4</b>	<b>35.4</b>	<b>35.4</b>	<b>0.0</b>	<b>19.7</b>	
<b>Project 4002 – Richmond-San Rafael Bridge – Deck Rehabilitation</b>							
Capital Outlay Support	04152x	9.0	5.0	5.0	0.0	0.2	
Capital Right of Way	041529	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	041524	33.0	33.0	33.0	0.0	0.0	
Non-BATA Funding		0.0	4.0	4.0	0.0	0.0	
Project (BATA) Contingency		11.4	11.4	11.4	0.0		
<b>Total R-SR Bridge – Deck Rehab</b>		<b>53.4</b>	<b>53.4</b>	<b>53.4</b>	<b>0.0</b>	<b>0.2</b>	
<b>Richmond Parkway (Non-Caltrans)</b>							
Capital Outlay Support	non-Caltrans	0.0	0.0	0.0	0.0	0.0	
Capital Right of Way	non-Caltrans	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	non-Caltrans	5.9	5.9	5.9	0.0	2.4	(g)
<b>Total Richmond Parkway</b>		<b>5.9</b>	<b>5.9</b>	<b>5.9</b>	<b>0.0</b>	<b>2.4</b>	
<b>Total Northern Bridge Group</b>		<b>1123.9</b>	<b>1227.2</b>	<b>1227.2</b>	<b>0.0</b>	<b>562.0</b>	

**Notes**

(e) Includes EA 01306\*, 01307\*, 0130A\*, 0130C\*, 0130D\*, 0130F\*, 0130G\*, 0130H\*, 0130J\*, 0130X\*

(f) Includes EA 04382\*, 04383\*, 0438U\*

(g) Total reimbursements made to the City of Richmond for current allocation.

**BAY AREA TOLL AUTHORITY**

**Appendix C – Project Cost Summary Details (cont'd)**

	EA Number	Baseline Budget Jun-00	Current Budget Oct-02	Current Forecast Dec-02	Net Change	Expended to Date (7/98 – 1/03)	Note
<b>Southern Bridge Group</b>							
<b>Project 6004 – San Mateo-Hayward Bridge Widening</b>							
<b>Widen Trestle</b>							
Capital Outlay Support	04501x	7.9	22.8	22.8	0.0	18.7	(h)
Capital Right of Way	045019	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	045014	124.8	128.9	128.9	0.0	124.9	
<b>Total Widen Trestle</b>		<b>132.7</b>	<b>151.7</b>	<b>151.7</b>	<b>0.0</b>	<b>143.6</b>	
<b>Widen Roadway</b>							
Capital Outlay Support	04503x	4.3	6.0	6.0	0.0	6.0	
Capital Right of Way	045039	1.0	0.0	0.0	0.0	0.0	
Capital Outlay	045034	29.2	26.1	26.1	0.0	25.4	
<b>Total Widen Roadway</b>		<b>34.5</b>	<b>32.1</b>	<b>32.1</b>	<b>0.0</b>	<b>31.4</b>	
<b>Construct Mini Toll Plaza</b>							
Capital Outlay Support	04502x	1.7	3.8	3.8	0.0	2.3	
Capital Right of Way	045029	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	045024	4.4	6.3	6.3	0.0	5.9	
<b>Total Mini Toll Plaza</b>		<b>6.1</b>	<b>10.1</b>	<b>10.1</b>	<b>0.0</b>	<b>8.2</b>	
<b>Other Budgeted Capital</b>							
Capital Outlay Support		1.6	7.2	7.2	0.0	3.5	(i)
Capital Right of Way		0.5	1.5	1.5	0.0	0.5	
Capital Outlay		8.9	8.6	8.6	0.0	2.9	
<b>Total Other Budgeted Capital</b>		<b>11.0</b>	<b>17.3</b>	<b>17.3</b>	<b>0.0</b>	<b>7.0</b>	
Total Capital Outlay Support		15.5	39.8	39.8	0.0	30.5	
Total Capital Right of Way		1.5	1.5	1.5	0.0	0.5	
Total Capital Outlay		167.3	169.9	169.9	0.0	159.2	
Project (BATA) Contingency		19.3	6.3	6.3	0.0		
<b>Total San Mateo-Hayward Bridge Widening</b>		<b>203.6</b>	<b>217.5</b>	<b>217.5</b>	<b>0.0</b>	<b>190.2</b>	
<b>San Mateo-Hayward Bridge – West Approach Replacement Planting</b>							
Capital Outlay Support	04860x	0.1	0.1	0.1	0.0	0.0	
Capital Right of Way	048609	0.0	0.0	0.0	0.0	0.0	
Capital Outlay	048604	0.2	0.2	0.2	0.0	0.0	
Project (BATA) Contingency		0.1	0.1	0.1	0.0		
<b>Total SM-H Bridge W. Approach Replacement Planting</b>		<b>0.4</b>	<b>0.4</b>	<b>0.4</b>	<b>0.0</b>	<b>0.0</b>	

**Notes:**

(h) Includes EA 04501\*

(i) Includes EA 00305\*, 04504\*, 04505\*, 04506\*, 04507\*, 04508\*, 04509\*



**BAY AREA TOLL AUTHORITY**

**Appendix C – Project Cost Summary Details (cont'd)**

	EA Number	Baseline Budget Jun-00	Current Budget Oct-02	Current Forecast Dec-02	Net Change	Expended to Date (7/98 – 1/03)	Note
<b>I-880/SR-92 Interchange Improvement</b>							(j)
Capital Outlay Support	23317x	20.8	24.1	24.1	0.0	12.0	
Capital Right of Way	233179	8.0	0.1	0.1	0.0	0.0	
Capital Outlay	233174	70.3	94.6	94.6	0.0	0.0	
Non-BATA Funding		0.0	10.0	10.0	0.0		
Project (BATA) Contingency		25.1	5.5	5.5	0.0		
<b>Total I-880/SR-92 I/C Improve.</b>		<b>124.2</b>	<b>134.2</b>	<b>134.2</b>	<b>0.0</b>	<b>12.0</b>	
<b>Dumbarton Bridge West Approach Projects</b>							
<b>US101/University Avenue Interchange Reconstruction (non-Caltrans)</b>							
Capital Outlay Support		0.0	0.0	0.0	0.0	0.0	
Capital Right of Way		0.0	0.0	0.0	0.0	0.0	
Capital Outlay		3.8	3.8	3.8	0.0	3.7	(k)
<b>Total US-101/University Ave.</b>		<b>3.8</b>	<b>3.8</b>	<b>3.8</b>	<b>0.0</b>	<b>3.7</b>	
<b>Bayfront Expressway (SR-84) Widening</b>							(l)
Capital Outlay Support	00487x	4.4	6.5	6.5	0.0	6.0	
Capital Right of Way	004879	1.3	0.2	0.2	0.0	0.2	
Capital Outlay	004874	24.8	26.6	26.6	0.0	16.4	
Project (BATA) Contingency		3.3	0.5	0.5	0.0		
<b>Total Bayfront Expressway (SR-84)</b>		<b>33.8</b>	<b>33.8</b>	<b>33.8</b>	<b>0.0</b>	<b>22.6</b>	
<b>Total Dumbarton Bridge W. Approach</b>		<b>37.6</b>	<b>37.6</b>	<b>37.6</b>	<b>0.0</b>	<b>26.3</b>	
<b>Total Southern Bridge Group</b>		<b>365.7</b>	<b>389.6</b>	<b>389.6</b>	<b>0.0</b>	<b>228.6</b>	

**Notes:**

(j) Includes EA 01601\* and 01602\*

(k) Total reimbursements made to the City of East Palo Alto for current allocation.

(l) Includes EA 01511\* and 01512\*

**General Notes:**

1. Capital outlay support includes both Caltrans and Architectural/Engineering (A/E) consultant support.
2. Capital right of way includes acquisition, loss of goodwill, demolition, utilities relocations, relocation assistance, title costs, and sale of excess lands.
3. Capital outlay includes construction bid items, supplemental construction work, state furnished materials, construction contingencies, and external third party agreements.